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**By Email Only: Alan.Kennedy@soni.ltd.uk**

**Date: 03 June 2026**

**Our Ref: NET/E/JF/1457**

Dear Alan,

**RE: SPID 07/2024 Grid Code Modification Proposal for Synchronous Condenser Units (SCU)**

We write following our receipt and consideration of SONI's Grid Code Modification Report (**the Report** – dated 20 August 2025), and SONI's Consultation Paper on the SCU Modifications (dated 20 December 2024), Greenline and Redline versions of the proposed Modifications to the SONI Grid Code, and a document with joint feedback to SONI's SCU Grid Code Consultation, dated 7 February 2025, as submitted by SONI to the Utility Regulator (**the Authority**) on 22 August 2025, served on the Authority in accordance with paragraph 2 of Condition 16 of the electricity transmission licence held by SONI (the Licence).

The Report sets out SONI's proposed modifications to the Grid Code, which would establish SCUs as a distinct unit type, and SCU Operators as a distinct User description. SONI requests the Authority's approval to the proposed modification (**the 'SCU Modifications'**), as required pursuant to paragraph 3 of Condition 16 of the Licence.

**The Authority's Decision**

Having reviewed the material provided, the Authority has decided to approve the making of the SCU Modifications. By this decision letter and in

accordance with paragraph 4 of Condition 16 of the Licence, the Authority directs SONI to revise the Grid Code in the manner set out in the Report. SONI must comply with this direction forthwith.

The general background, the details of the SCU Modifications, and the reasons for the Authority's decision follow.

## **Background**

The Synchronous Condenser Grid Code Implementation Note<sup>1</sup> was published by SONI and EirGrid in October 2022. It offered guidance to those intending to connect SCUs to the network to provide system services, in relation to the application of the Grid Code. No specific Grid Code requirements applying to SCUs existed at that time, and the 2022 Implementation Note did not propose any modifications to do so. However, SONI and Eirgrid, in the Implementation Note, allowed for the submission of feedback by stakeholders, with the intention of considering this in the development of further versions of the Implementation Note, which would be subsequently incorporated into the Grid Code.

SONI and EirGrid then presented initial views on the integration of SCUs as a new user type in the Grid Code, at the Joint Grid Code Review Panel (JGCRP), on 20 March 2024.<sup>2</sup> Draft versions of the SONI and EirGrid Grid Codes that incorporated SCUs, were circulated after this meeting to JGCRP Panel Members, with the opportunity for Panel Members to provide feedback. SONI and EirGrid issued a response document to the feedback on 26 July 2024, requesting further comments. After SONI/EirGrid review of these comments, and further reengagement to finalise voltage regulation requirements, the modification proposals was presented to the JGCRP on 3 December 2024.<sup>3</sup> SONI then consulted upon the draft modification, from 20 December 2024 to 31 January 2025<sup>4</sup>, with the consultation period extended to 7 February 2025 by the Authority's request, to give respondents sufficient opportunity to respond, given the timing of the consultation.

SONI has provided a 7 February 2025 document outlining joint feedback to the consultation from three Original Equipment Manufacturers (OEMs),

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<sup>1</sup> [Synchronous-Condenser-Implementation-Note.pdf](#).

<sup>2</sup> [Grid Code Review Panel Meeting 20 March 2024 | Eirgrid](#).

<sup>3</sup> [Grid Code Review Panel \(GCRP\) Meeting 4 December 2024 | Eirgrid](#).

<sup>4</sup> [Consultation on Grid Code Modification for Synchronous Condenser Units | SONI Consultation Portal](#).

along with the application for modification. In the response, concerns are outlined about voltage, and how the proposed modifications would affect reactive power profiles. After receiving this response, EirGrid and SONI engaged with stakeholders, including SCU developers and OEMs, at the end of which SONI states that these stakeholders agreed that the original technical requirements be retained.<sup>5</sup>

The proposed version of the modifications, presented at the 3 December 2024 JGCRP, had included the assumption SCU Operators would be required to submit Physical Notifications (PNs). It subsequently became apparent, as part of the Scheduling and Dispatch Programme (SDP), SCUs would not participate in energy markets, and therefore would not be required to submit PNs as part of their Technical Offer Data (TOD). The Modification proposal was subsequently updated to align with the SDP approach, but after the 3 December 2024 had been publicly consulted upon. SONI comments that *“Since this variation of the SDC sections of the modification proposal is simply aligning the data submission requirements with the equivalent Trading and Settlement Code modification, we believe that there is no merit in seeking feedback via further public consultation.”*

The updated drafts were presented to the GCRP and JGCRP on 26 June 2025, where it was agreed that the proposals should be submitted to the Authority and to Eirgrid respectively, for their approval.

Subsequent to the June 2025 meeting, it became apparent the numbering of some clauses within SDC1 were incorrect. Although these clauses are mostly not directly part of the SCU Modifications, and the errors appeared to have occurred before the submission of the SCU Modifications proposal, SONI states *“This impacts an area of the Grid Code under common governance so we are keen to restore alignment the correct between the SDC sections within the EirGrid and SONI Grid Codes.”* These errors have been corrected in the August 2025 Modification Proposal submitted.

The Consultation Modification Report includes Red Line and Green Line text showing the Proposed Additional Modifications (part of the SCU Modifications). The “Red Line” version of the textual changes associated with the SDC sections of the modification proposal, both concerning the SDP approach and the SDC1 clause numbering, that were not included in the version of the modification proposal consulted upon in December 2024

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<sup>5</sup> This was referenced in the [minutes of the Joint Grid Code Review Panel Meeting of 26 June 2025](#).

and January 2025, are detailed in **Annex 1** of this document.

## The SCU Modifications

The SCU Modifications proposes changes to five separate sections of the Grid Code – Definitions<sup>6</sup>, Planning Code<sup>7</sup>, Connection Conditions<sup>8</sup>, Operating Codes<sup>9</sup> and Scheduling and Dispatch Codes<sup>10</sup>. Additionally, SONI states in the Consultation Modification Report that it intends to, in the future, develop a separate Setting Schedule for SCUs, which will provide detail on the signals and testing requirements.

SONI states that the SCU Modifications will align with the 2022 Implementation Note and set minimum technical requirements for SCUs. SONI comments that the SCU Modifications *“will ensure that all remaining sections of the SONI Grid Code align with the requirements of the SCU Grid Code Implementation Note and account for relevant feedback from industry representatives including OEMs and SCU developers.* SONI also says that the modification will set minimum technical requirements for SCUs, but *“do not preclude SCU developers from offering enhanced capabilities under the provisions of separate contractual arrangement for system services.”* In SONI’s opinion, the SCU Modifications will outline requirements for SCUs reflecting their technical capabilities, while also reflecting requirements for their Scheduling and Dispatch.

We note SONI also takes the view that the SCU Modifications, if accepted, would support the objectives of the Grid Code by enabling the efficient operation of the Northern Ireland Transmission System, and ensure that the Grid Code sets out appropriate minimum technical requirements for SCUs, thereby ensuring the accuracy of the Grid Code.

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<sup>6</sup> Including the definition of an SCU – *“A synchronous machine designed to operate as a motor with no prime mover providing Synchronous Compensation and zero Active Power Generation but with non-zero Active Power Demand. [May include Apparatus such as a flywheel to increase its inertia constant.] The Synchronous Condenser Unit shall be subject to Central Dispatch”* and an SCU Operator – *“A person who operates a Synchronous Condenser Unit and is subject to the Grid Code pursuant to any agreement with the TSO or otherwise.”*

<sup>7</sup> Includes standards concerning the SCU data, that should be submitted to the Transmission System Operator.

<sup>8</sup> Includes Protection System Management Requirements, Operational Notification Procedure, Technical and Performance Requirements of SCUs.

<sup>9</sup> Includes procedures concerning Outages, Operational Planning, Contingency Planning, Event Reporting.

<sup>10</sup> Includes additions to Unit Scheduling and Control Scheduling and Dispatch.

## **Liaison with CRU**

We have liaised with CRU on the Proposed Modification. We are aware that CRU has approved an analogue (the **Sister Modification Proposal**) of the Proposed Modification.

## **Condition 16**

Condition 16 of the SONI TSO licence confirms that SONI shall not action proposed modifications (revisions) to the Grid Code in the absence of the approval of the Authority. It also provides for the Authority to make appropriate directions about revisions to the Grid Code.

## **Decision**

Our Decision is to Approve (under Condition 16 of the SONI TSO Licence) the Proposed Modification (to include the Additional Proposed Modifications) as explained in the Report.

In making the Decision we have had regard to:

- (i) the matters referred to above
- (ii) the framework provided by Condition 16
- (iii) the making of the CRU approval on the Sister Modification Proposal.
- (iv) our statutory principal objective and general duties (as applicable) under Art 12 of the Energy (NI) Order 2003 (**Art 12**)

The Authority considers that approval of the Proposed Modification is aligned with its Article 12 objectives and duties, which include an obligation to have regard to the need to secure that all reasonable demands for electricity are met.

The use of Synchronous Condenser technology can enhance the stability of electricity networks, as sources of inertia and voltage recovery during faults. The relative importance of this technology will likely increase as the share of renewable power on the system increases, creating the need for more active management of inertia and other factors, through the procurement of system services such as SCUs. This modification would include this user type within the Grid Code, lay down the minimum technical standards for SCUs

on the Grid, and arrangements for their Scheduling and Dispatch. This would provide more certainty for those wishing to connect SCUs to the Grid to provide System Services. By potentially facilitating more SCUs on the system in this way, if this enhances the stability of the network, it would then assist in meeting all reasonable demands for electricity are met, and benefit consumers by potentially ensuring supply is more stable.

In basic summary, we consider the Application as well-founded for the reasons set out in the Report to include, importantly, to facilitate the attainment of the objectives (for the Grid Code) set out in Condition 16(1) of the Licence.

To the extent that might be considered necessary the Authority hereby directs SONI (in accordance with paragraph 4 of Condition 16 of the SONI TSO Licence) to revise the Grid Code in the manner reflected in the Proposed Modification, including the changes set out in Annex 1, that were not part of the January 2025 consultation.

The approval now granted shall be effective from the date of this letter. Please proceed to publish an updated version of the Grid Code on SONI's website.

This Decision will be entered on the electricity register and published in the normal way.

We trust this is satisfactory.

Should you have any further queries please contact Jody O'Boyle.

Yours sincerely,



Jillian Ferris

**Head of Networks**  
**Duly authorised by the Authority**

**Enclosure: Annex 1**

## Annex 1

### Changes to SDC 1.4.4.6

#### December 2024 Consultation Version (SDC 1.4.4.6):

SDC1.4.4.6 Physical Notifications and Interconnector Schedule Quantities

(a) Each:

- Generator;
- Energy Storage Generator;
- Pumped Storage Generator;
- Demand Side Unit Operator;
- Synchronous Condenser Unit Operator; and
- Generator Aggregator,

shall in respect of:

Each of its CDGUs;  
Each of its Energy Storage Power Station Demand;  
Each of its Pumped Storage Plant Demand;  
Each of its Demand Side Units;  
Each of its Synchronous Condenser Units; and  
Its Aggregated Generating Units,

submit to the TSO, either directly or by means of an Intermediary on its behalf (if applicable), Physical Notifications by Gate Closure 1 for the corresponding Trading Days in accordance with the TSC. Physical Notifications shall be technically feasible. Users shall ensure that the accuracy of Physical Notifications is commensurate with Prudent Operating Practice.

(b) Prior to Gate Closure 2, Physical Notifications submitted in accordance with SDC1.4.4.6(a) shall be amended by the User (or Intermediary if applicable) to align with changes to their expected Active Power Generation or Active Power Demand. A new Physical Notification will supersede the previous one in relation to a Physical Notification for Imbalance Settlement Periods or parts thereof which are covered by the new one. At Gate Closure 2, Physical Notifications for the relevant Imbalance Settlement Period become Final Physical Notifications for that Imbalance Settlement Period. Final Physical Notifications may not be amended.

(c) Each Generator may, in respect of their Controllable PPM submit Physical Notifications in accordance with the provisions of SDC1.4.4.6(a) and SDC1.4.4.6(b).

(d) Each Scheduling Agent shall in respect of each Interconnector they have been nominated to schedule, submit to the TSO, Interconnector Schedule Quantities by Gate Closure 1 for the corresponding Trading Days in accordance with the TSC. Prior to Gate Closure 2 for each Imbalance Settlement Period (or an alternative later time advised from time to time by the TSO acting in accordance with Prudent Operating Practice but not later than the start of the Imbalance Settlement Period), Scheduling Agents shall submit further Interconnector Schedule Quantities in accordance with the TSC to reflect trading in intraday markets. At Gate Closure 2 for an Imbalance Settlement Period (or an alternative later time advised from time to time by the TSO acting in accordance with Prudent Operating Practice but not later than the start of the Imbalance Settlement Period), further Interconnector Schedule Quantities may not be submitted for that Imbalance Settlement Period.

(e) Notwithstanding the obligations in SDC1.4.4.6(a) and SDC1.4.4.6(b), a value of zero will be deemed in all Imbalance Settlement Periods, or parts thereof, for which Physical Notifications data or Interconnector Schedule Quantities data has not been submitted.

(f) If a User has submitted proposals for a test to the TSO and subsequently receives approval for the test from the TSO, the User (or their Intermediary, if applicable) shall submit Physical Notifications for the unit under test in accordance with the TSC to identify the time periods during which their units are under test. The User shall ensure that the Physical Notifications submitted in respect of a unit under test align with the approved test start time, test MW Output profile (or Demand Unit MW Response profile in the case of Demand Side Units [or Active Power Demand profile in the case of Synchronous Condenser Units](#)) and test end time.

**August 2025 Submitted Version****SDC1.4.4.6 Physical Notifications and Interconnector Schedule Quantities**

- (a) Each:
- Generator;
  - Energy Storage Generator;
  - Pumped Storage Generator;
  - Demand Side Unit Operator; and
  - Generator Aggregator.

shall in respect of:

Each of its CDGUs;  
Each of its Energy Storage Power Station Demand;  
Each of its Pumped Storage Plant Demand;  
Each of its Demand Side Units; and  
Its Aggregated Generating Units,

submit to the TSO, either directly or by means of an Intermediary on its behalf (if applicable), Physical Notifications by Gate Closure 1 for the corresponding Trading Days in accordance with the TSC. Physical Notifications shall be technically feasible. Users shall ensure that the accuracy of Physical Notifications is commensurate with Prudent Operating Practice.

(b) Prior to Gate Closure 2, Physical Notifications submitted in accordance with SDC1.4.4.6(a) shall be amended by the User (or Intermediary if applicable) to align with changes to their expected Active Power Generation or Active Power Demand. A new Physical Notification will supersede the previous one in relation to a Physical Notification for Imbalance Settlement Periods or parts thereof which are covered by the new one. At Gate Closure 2, Physical Notifications for the relevant Imbalance Settlement Period become Final Physical Notifications for that Imbalance Settlement Period. Final Physical Notifications may not be amended.

(c) Each Generator may, in respect of their Controllable PPM submit Physical Notifications in accordance with the provisions of SDC1.4.4.6(a) and SDC1.4.4.6(b).

(d) Each Scheduling Agent shall in respect of each Interconnector they have been nominated to schedule, submit to the TSO, Interconnector Schedule Quantities by Gate Closure 1 for the corresponding Trading Days in accordance with the TSC. Prior to Gate Closure 2 for each Imbalance Settlement Period (or an alternative later time advised from time to time by the TSO acting in accordance with Prudent Operating Practice but not

later than the start of the Imbalance Settlement Period), Scheduling Agents shall submit further Interconnector Schedule Quantities in accordance with the TSC to reflect trading in intraday markets. At Gate Closure 2 for an Imbalance Settlement Period (or an alternative later time advised from time to time by the TSO acting in accordance with Prudent Operating Practice but not later than the start of the Imbalance Settlement Period), further Interconnector Schedule Quantities may not be submitted for that Imbalance Settlement Period.

(e) Notwithstanding the obligations in SDC1.4.4.6(a) and SDC1.4.4.6(b), a value of zero will be deemed in all Imbalance Settlement Periods, or parts thereof, for which Physical Notifications data or Interconnector Schedule Quantities data has not been submitted.

(f) If a User has submitted proposals for a test to the TSO and subsequently receives approval for the test from the TSO, the User (or their Intermediary, if applicable) shall submit Physical Notifications for the unit under test in accordance with the TSC to identify the time periods during which their units are under test. The User shall ensure that the Physical Notifications submitted in respect of a unit under test align with the approved test start time, test MW Output profile (or Demand Unit MW Response profile in the case of Demand Side Units) and test end time.

**SDC1.4.5** The TSO shall, insofar as it is reasonably able, take account of revisions or notifications submitted under SDC1.4 for Scheduling and Dispatch purposes.

## **SD1 Numbering Changes**

### **December 2024 Consultation Version**

#### SDC1.4.7 Form of Submission

- (a) Where this SDC1 requires a User to submit a notice, it may instead of submitting it in writing, submit the information required in such a notice (which information shall be supplied in full) by telephone subject to the TSO's prior consent (identifying unambiguously the type of notice which is thereby being submitted).
- (b) The individual who is giving the notice by telephone on behalf of the User shall firstly specify the time at which the notice is being given, then identify himself and ask the individual receiving the notice on behalf of the TSO also to identify himself. The information required by the notice shall then be given, including (without limitation) the identity of the CDGU, Controllable PPM, [Synchronous Condenser Unit](#), Energy Storage Power Station Demand, Aggregated Generating Unit, Pumped Storage Plant and Demand Side Unit to which the notice relates.
- (c) The notice shall then be confirmed by facsimile transmission or by any electronic means as agreed with the TSO as soon as possible thereafter (and in any event be sent to the TSO within 2 hours). Where a facsimile is so sent by way of confirmation, it shall state clearly that it is in confirmation of a notice already given by telephone and shall state the exact time at which the notice was given by telephone.

#### SDC1.4.8 Compilation of Indicative Operations Schedules

The provisions of SDC1.4.8.2 and SDC1.4.8.8 shall, with respect to PPA Generation, be read in conjunction with the provisions of SDC1.B.3.2 and SDC1.B.3.3 respectively.

SDC1.4.8.1 Indicative Operations Schedules will be compiled by the TSO in conjunction with the Other TSO as further provided in this SDC1.4.8 as a statement of which CDGUs and/or Controllable PPM [and/or Synchronous Condenser Units](#) and/or transfers across any Interconnector and/or Demand Side Units and/or Pumped Storage Plant Demand and/or Energy Storage Power Station Demand and/or Aggregated Generating Units and equivalent units in the Republic of Ireland may be required to operate and their expected MW Output or [Active Power Demand](#). The TSO in

conjunction with the Other TSO will periodically update the Indicative Operations Schedules.

#### SDC1.4.8.2 Merit Order

Subject as provided below, a Merit Order will be compiled by the TSO (in conjunction with the Other TSO) for each Imbalance Settlement Period from the Price Quantity Pairs, Start-Up Cost, Shutdown Cost and No-Load Cost (which together shall be known as the “Price Set”) and, subject as provided in this SDC1, used to determine which of the CDGUs, Controllable PPMs, Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Units, Aggregated Generating Units or Interconnector power transfer to Schedule and Dispatch in relation to their Price Sets at values that differ from those indicated by Physical Notifications and Interconnector Schedule Quantities, as required to deliver the objectives set out in SDC1.2(a), SDC1.2(b) and SDC1.2(c). The Merit Order for increasing MW Output above the level indicated in Physical Notifications and Interconnector Schedule Quantities will be on the basis of ascending prices so that once committed the CDGU, Controllable PPM, Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Unit, Aggregated Generating Unit Price Set or bid-offer data from an External System Operator at the head of the Merit Order will be that which has the lowest price per MWh, and that at the foot of the Merit Order shall be the one with the highest price per MWh. Each CDGU, Controllable PPM, Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Unit, Aggregated Generating Units and/or bid-offer data from an External System Operator shall appear in the Merit Order for each Price Set submitted.

The Merit Order for dispatching MW Output to a level below that indicated in Physical Notifications and Interconnector Schedule Quantities will be on the basis of descending prices so that the CDGU, Controllable PPM, Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Unit, Aggregated Generating Unit Price Set or bid-offer data from an External System Operator at the head of a Merit Order will be that which has the highest price per MWh, and that at the foot of a Merit Order shall be the one with the lowest price per MWh. Each CDGU, Controllable PPM, Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Unit, Aggregated Generating Units or bid-offer data from an External System Operator shall appear in the Merit Order for each Price Set submitted.

SDC1.4.8.3 In compiling the Indicative Operations Schedules in conjunction with the Other TSO, the TSO will take account of the following factors (and the equivalent factors on the Other Transmission System will be so treated separately by the Other TSO):

- (i) Physical Notifications, Final Physical Notifications or

Interconnector Schedule Quantities (as the case may be) submitted in accordance with SDC1.4.4.6;

- (ii) Transmission System constraints which may vary from time to time, as determined by the TSO;
- (iii) Reserve constraints which may vary from time to time, as determined by the TSO;
- (iv) the need to provide an Operating Margin (by using the various categories of reserve as specified in OC3 (as the case may be), as determined by the TSO acting in conjunction with the Other TSO;
- (v) Transmission System stability considerations;
- (vi) the level of MW Output and availability covered by Non Centrally Dispatched Generating Units, by Plant subject to Priority Dispatch and by Controllable PPM;
- (vii) the Energy Limits for Hydro Units;
- (viii) in respect of all Plant, the values of their Technical Parameters registered under this SDC1 and other information submitted under SDC1.4.4.4;
- (ix) Commercial Offer Data for each CDGU and/or Controllable PPM and/or Synchronous Condenser Unit and the Shutdown Cost of each Demand Side Unit and equivalent commercial data provided by an External System Operator in respect of Interconnectors;
- (x) the requirements, as determined by the TSO, for Voltage Control and Mvar reserves;

- (xi) CDGU and/or Controllable PPM and/or Synchronous Condenser Unit stability, as determined by the TSO;
- (xii) other matters to enable the TSO to meet its Licence Standards and the Other TSO to meet its equivalent;
- (xiii) the requirements as determined by the TSO, for maintaining Frequency Control;
- (xiv) Monitoring and/or Testing and/or Investigations to be carried out, or being carried out, under OC11 (as the case may be), testing to be carried out, or being carried out, at the request of a Generator in relation to a PPA CDGU under OC11.8, testing to be carried out at the request of a User in respect of User's Equipment other than a PPA CDGU under OC11.13 and/or Commissioning/Acceptance Testing under the CC;
- (xv) System Tests;
- (xvi) the inability of any CDGU and/or Controllable PPM to meet its full reserve capability;
- (xvii) Inter-jurisdictional Tie Line limits;
- (xviii) other facts as may be reasonably considered by the TSO to be relevant to the Indicative Operations Schedule;
- (xix) the inflexible characteristics as declared by the Generator or Synchronous Condenser Unit Operator and abnormal risks;
- (xx) losses on the Transmission System and on the Other Transmission System;
- (xxi) requirements within any Constrained Group;
- (xxii) the requirements to manage gas flows;

- (xxiii) fuel and emission constraints of a Plant as well as any other technical related factors which may constrain the Output or Demand Reduction of a Plant as the case may be both immediately and in the longer term.
- (xxiv) any inter-unit dependencies notified to the TSO that restrict the number of Generating Units that can start up or shut down simultaneously.
- (xxv) factors used by the TSO (and the Other TSO) in order to comply with Statutory Instruments, Statutory Regulations and/or the Licence which may impact Scheduling and Dispatch;
- (xxvi) factors used by the TSO (and the Other TSO) to comply with the objectives in SDC1.2(g);

SDC1.4.8.4 Taking account of and applying the factors referred to in SDC1.4.8.3, Indicative Operations Schedules shall be compiled by the TSO in conjunction with the Other TSO to Schedule such CDGUs, Controllable PPM, [Synchronous Condenser Units](#), Pumped Storage Plant Demand, Demand Side Units, Aggregated Generating Units and/or such Interconnector power transfers, and equivalent units or power transfers of equivalent units in the Republic of the Ireland, which have been declared Available in an Availability Notice (and the equivalents on the Other Transmission System):

- (i) in accordance with the applicable Merit Order
- (ii) as will in aggregate (after taking into account electricity delivered other than from CDGUs, Controllable PPMs, Aggregated Generating Units, and/or Interconnector power transfers and variation in Demand from Pumped Storage Plant Demand, Energy Storage Power Station Demand, [Synchronous Condenser Units](#) and Demand Side Units) be sufficient to match at all times (to the extent possible having regard to the Availability or Demand Side Unit MW Availability of CDGUs, Controllable PPMs, [Synchronous Condenser Units](#), Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Units, Aggregated Generating Units and Interconnector power transfers) the forecast aggregated Demand (derived under OC1 of the Grid Code and the Other Grid Code) together with such margin of reserve as the TSO working in conjunction with the Other TSO shall consider to be appropriate; and

- (iii) as will in aggregate be sufficient to match minimum forecast Demand levels together with a sufficient Minimum Demand Regulation.

The taking account of and application of the factors in SDC1.4.8.3 will mean that, in general, strict adherence to Merit Order may not necessarily be feasible.

SDC1.4.8.5 The TSO will periodically rerun the Scheduling process and issue revised Indicative Operating Schedules to take account of any of the following factors (and the equivalent factors on the Other Transmission System which will be so dealt with separately by the Other TSO):

- (a) changes to Physical Notifications;
- (b) changes to Interconnector Schedule Quantities;
- (c) changes to Commercial Offer Data [and bid-offer data from External Transmission System Operators];
- (d) changes to Availability or Demand Side Unit MW Availability and/or Technical Parameters of CDGUs and/or Controllable PPM and/or Aggregated Generating Units and/or Interconnectors and/or Demand Side Units and/or [Synchronous Condenser Units](#) notified to the TSO;
- (e) changes to Demand forecasts on the Island of Ireland;
- (f) changes to PPM resource forecasts on the Island of Ireland;
- (g) changes to Transmission System constraints, emerging from the necessarily iterative process of Scheduling and network security assessment;
- (h) changes to CDGU and/or Controllable PPM and/or [Synchronous](#)

[Condenser Unit](#) requirements following notification to the TSO of the changes in capability of a Generator or [Synchronous Condenser Unit Operator](#) to provide a Special Action as described in SDC2;

- (i) changes to CDGU and/or Controllable PPM [and/or Synchronous Condenser Unit](#) requirements within Constrained Groups, following re-appraisal of System Demand forecasts on the Island of Ireland within that Constrained Group;
- (j) changes to any conditions which in the reasonable opinion of the TSO, would impose increased risk to the Transmission System and would therefore require an increase in the Operating Margin;
- (k) known (or emerging) limitations and/or deficiencies of the Scheduling process.

SDC1.4.8.6 When:

- (a) adverse weather is anticipated;
- (b) there is a high risk to the whole or part of the Transmission System and/or the Other Transmission System;
- (c) Demand Control has been instructed by the TSO;
- (d) a Total or Partial Shutdown exists; or
- (e) the Fuel Security Code is invoked or is anticipated to be invoked;

these factors may mean that a CDGU, Controllable PPM, [Synchronous Condenser Units](#), Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Unit, Aggregated Generating Unit and/or Interconnector transfers is/are chosen other than in accordance with the profile described in Physical Notifications (the Active Power profile derived from Interconnector Schedule Quantities in respect of Interconnectors)

and amended in line with Merit Order to a greater degree than would be the case when merely taking into account the factors listed in SDC1.4.8.3 in order to seek to maintain the integrity of the Transmission System.

SDC1.4.8.7 (a) The Synchronising and De-Synchronising times (and, in the case of Pumped Storage Plant Demand and Energy Storage Power Station Demand, the relevant effective time) shown in the Indicative Operations Schedule are indicative only and it should be borne in mind by Users that the Dispatch Instructions could reflect more or different CDGU, Aggregated Generating Unit and/or Controllable PPM, [Synchronous Condenser Unit](#), Pumped Storage Plant Demand, Energy Storage Power Station Demand and/or Aggregate Generating Unit requirements than in the Indicative Operations Schedule. The TSO may issue Dispatch Instructions in respect of any CDGU and/or Aggregated Generating Unit, Controllable PPM, [Synchronous Condenser Unit](#), Pumped Storage Plant Demand, Energy Storage Power Station Demand or Aggregated Generating Unit which has not declared an Availability or Demand Side Unit MW Availability of 0 MW in an Availability Notice. Users with CDGUs and/or Aggregated Generating Units, Controllable PPM, [Synchronous Condenser Unit](#), Pumped Storage Plant Demand, Energy Storage Power Station Demand shall ensure that their units are able to be Synchronised, or in the case of Pumped Storage Plant Demand and Energy Storage Power Station Demand, used at the times Scheduled, but only if so Dispatched by the TSO by issue of a Dispatch Instruction. Users shall, as part of a revision to the Technical Parameters, indicate to the TSO the latest time at which a Dispatch Instruction is required to meet the scheduled Synchronising time or in the case of Pumped Storage Plant Demand and Energy Storage Power Station Demand, the Scheduled relevant effective time.

(b) The provisions of SDC1.4.8.7(a) shall apply to Demand Side Units with the exception that reference to relevant effective time shall be read as a reference to Demand Side Unit Notice Time.

#### SDC1.4.8.8 Content of Indicative Operations Schedules

The information contained in the Indicative Operations Schedule will indicate, where appropriate, on an individual CDGU, Controllable PPM, [Synchronous Condenser Unit](#), Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Unit, Aggregated Generating Units and /or Interconnector basis, the period and Loading or [Active Power Demand](#) for which it is Scheduled during the relevant Trading Day. In the case of a CDGU which is capable of firing on two different fuels, it will also indicate the fuel for which it is Scheduled. If no fuel is contained in the Indicative Operations Schedule, then the most

recently specified fuel shall be treated as having been indicated.

#### SDC1.4.8.9 Issue of Indicative Operations Schedule

(a) The initial Indicative Operations Schedule for a Trading Day will be published for access by Users (or where in relation to a CDGU or [Synchronous Condenser Unit](#) the User does not have access to where it would be published, shall, subject to agreement with the TSO (such agreement not to be unreasonably withheld or delayed), be sent by the TSO to that User) by 1600 hours on the day preceding the relevant Trading Day. However, if on any occasion the TSO is unable to meet these times, the TSO also reserves the right to extend the timescale for the issue of the initial Indicative Operations Schedules to the extent necessary. Following the issue of the initial Indicative Operations Schedule preceding the relevant Trading Day, the TSO will issue revised Indicative Operations Schedules to reflect updated information from the Scheduling process.(b) Indicative Operations Schedules issued by the TSO may comprise several schedules covering short term, medium term or long term timeframes where long term covers the period up to 48 hours immediately following real time.

(c) The TSO may issue Dispatch Instructions to Users in respect of CDGUs, Controllable PPMs, [Synchronous Condenser Units](#), Pumped Storage Plant Demand and/or Energy Storage Power Station Demand and/or Demand Side Units and/or Aggregated Generating Units and/or Interconnector transfers before the issue of the Indicative Operations Schedule for the Trading Day to which the Dispatch instruction relates if the Synchronous Start Up Time for the relevant CDGUs and/or Controllable PPMs, Synchronous Condenser Unit, Pumped Storage Plant Demand and/or Energy Storage Power Station Demand and/or Demand Side Unit and/or Aggregated Generating Unit requires the Dispatch instruction to be given at that time. When the length of the time required for Notice to Synchronise is within 30 minutes of causing the CDGU and/or Controllable PPMs [and/or Synchronous Condenser Unit](#) and/or Pumped Storage Plant Demand and/or Energy Storage Power Station Demand to be unable to meet the indicative Synchronising time in the Indicative Operations Schedule or a subsequent indicative Synchronising time and no Dispatch Instruction has been received, the Generator shall inform the TSO without delay.

#### SDC1.4.8.10 Regulation

It is a requirement for running the Transmission System that all Synchronised CDGUs and/or Controllable PPMs shall at all times be capable of reducing MW Output sufficient to allow a sufficient Regulating

Margin for adequate Frequency Control. The TSO will monitor the MW Output data of the Indicative Operations Schedule against forecast of System Demand on the Island of Ireland to see whether the level of regulation for any period is sufficient, and may take any shortfall into account in Scheduling and Dispatch.

#### SDC1.4.8.11 Data Requirements

SDC1 Appendix A Part 1 sets out the Technical Parameters for which values are to be supplied by a User in respect of each of its CDGUs and/or Controllable PPMs [and/or Synchronous Condenser Units](#) and/or Pumped Storage Plant Demand and/or Energy Storage Power Station Demand and/or Demand Side Units and/or Aggregated Generating Units by not later than Gate Closure 1 for the relevant Trading Day.

SDC1 Appendix A Part 2 sets out the additional data items required in respect of an Additional Grid Code Characteristics Notice.

## August 2025 Submitted Version

### SDC1.4.67 Form of Submission

- (a) Where this SDC1 requires a **User** to submit a notice, it may instead of submitting it in writing, submit the information required in such a notice (which information shall be supplied in full) by telephone subject to the **TSO's** prior consent (identifying unambiguously the type of notice which is thereby being submitted).
- (b) The individual who is giving the notice by telephone on behalf of the **User** shall firstly specify the time at which the notice is being given, then identify himself and ask the individual receiving the notice on behalf of the **TSO** also to identify himself. The information required by the notice shall then be given, including (without limitation) the identity of the **CDGU, Controllable PPM, Synchronous Condenser Unit, Energy Storage Power Station Demand, Aggregated Generating Unit, Pumped Storage Plant** and **Demand Side Unit** to which the notice relates.
- (c) The notice shall then be confirmed by facsimile transmission or by any electronic means as agreed with the **TSO** as soon as possible thereafter (and in any event be sent to the **TSO** within 2 hours). Where a facsimile is so sent by way of confirmation, it shall state clearly that it is in confirmation of a notice already given by telephone and shall state the exact time at which the notice was given by telephone.

### SDC1.4.87 Compilation of Indicative Operations Schedules

The provisions of SDC1.4.8.2 and SDC1.4.8.8 shall, with respect to **PPA Generation**, be read in conjunction with the provisions of SDC1.B.3.2 and SDC1.B.3.3 respectively.

- SDC1.4.87.1 **Indicative Operations Schedules** will be compiled by the **TSO** in conjunction with the **Other TSO** as further provided in this SDC1.4.8 as a statement of which **CDGUs** and/or **Controllable PPM and/or Synchronous Condenser Units** and/or transfers across any **Interconnector** and/or **Demand Side Units** and/or **Pumped Storage Plant Demand** and/or **Energy Storage Power Station Demand** and/or **Aggregated Generating Units** and equivalent units in the Republic of Ireland may be required to operate and their expected **MW Output or Active Power Demand**. The **TSO** in conjunction with the **Other TSO** will periodically update the **Indicative Operations Schedules**.

## SDC1.4.78.2 Merit Order

Subject as provided below, a **Merit Order** will be compiled by the **TSO** (in conjunction with the **Other TSO**) for each **Imbalance Settlement Period** from the **Price Quantity Pairs, Start-Up Cost, Shutdown Cost and No-Load Cost** (which together shall be known as the “**Price Set**”) and, subject as provided in this SDC1, used to determine which of the **CDGUs, Controllable PPMs, Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Units, Aggregated Generating Units** or **Interconnector** power transfer to **Schedule** and **Dispatch** in relation to their **Price Sets** at values that differ from those indicated by **Physical Notifications** and **Interconnector Schedule Quantities**, as required to deliver the objectives set out in SDC1.2(a), SDC1.2(b) and SDC1.2(c). The **Merit Order** for increasing **MW Output** above the level indicated in **Physical Notifications** and **Interconnector Schedule Quantities** will be on the basis of ascending prices so that once committed the **CDGU, Controllable PPM, Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Unit, Aggregated Generating Unit Price Set** or bid-offer data from an **External System Operator** at the head of the **Merit Order** will be that which has the lowest price per **MWh**, and that at the foot of the **Merit Order** shall be the one with the highest price per **MWh**. Each **CDGU, Controllable PPM, Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Unit, Aggregated Generating Units** and/or bid-offer data from an **External System Operator** shall appear in the **Merit Order** for each **Price Set** submitted.

The **Merit Order** for dispatching **MW Output** to a level below that indicated in **Physical Notifications** and **Interconnector Schedule Quantities** will be on the basis of descending prices so that the **CDGU, Controllable PPM, Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Unit, Aggregated Generating Unit Price Set** or bid-offer data from an **External System Operator** at the head of a **Merit Order** will be that which has the highest price per **MWh**, and that at the foot of a **Merit Order** shall be the one with the lowest price per **MWh**. Each **CDGU, Controllable PPM, Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Unit, Aggregated Generating Units** or bid-offer data from an **External System Operator** shall appear in the **Merit Order** for each **Price Set** submitted.

SDC1.4.87.3 In compiling the **Indicative Operations Schedules** in conjunction with the **Other TSO**, the **TSO** will take account of the following factors (and the equivalent factors on the **Other Transmission System** will be so treated separately by the **Other TSO**):

- (i) **Physical Notifications, Final Physical Notifications** or **Interconnector Schedule Quantities** (as the case may be)

- submitted in accordance with SDC1.4.4.6;
- (ii) **Transmission System** constraints which may vary from time to time, as determined by the **TSO**;
  - (iii) Reserve constraints which may vary from time to time, as determined by the **TSO**;
  - (iv) the need to provide an **Operating Margin** (by using the various categories of reserve as specified in OC3 (as the case may be), as determined by the **TSO** acting in conjunction with the **Other TSO**;
  - (v) **Transmission System** stability considerations;
  - (vi) the level of **MW Output** and availability covered by **Non Centrally Dispatched Generating Units**, by **Plant** subject to **Priority Dispatch** and by **Controllable PPM**;
  - (vii) the **Energy Limits** for **Hydro Units**;
  - (viii) in respect of all **Plant**, the values of their **Technical Parameters** registered under this SDC1 and other information submitted under SDC1.4.4.4;
  - (ix) **Commercial Offer Data** for each **CDGU** and/or **Controllable PPM** and/or **Synchronous Condenser Unit** and the **Shutdown Cost** of each **Demand Side Unit** and equivalent commercial data provided by an **External System Operator** in respect of **Interconnectors**;
  - (x) the requirements, as determined by the **TSO**, for **Voltage Control** and **Mvar** reserves;
  - (xi) **CDGU** and/or **Controllable PPM** and/or **Synchronous Condenser Unit** stability, as determined by the **TSO**;
  - (xii) other matters to enable the **TSO** to meet its **Licence Standards** and the **Other TSO** to meet its equivalent;
  - (xiii) the requirements as determined by the **TSO**, for maintaining **Frequency Control**;
  - (xiv) **Monitoring** and/or **Testing** and/or **Investigations** to be carried out, or being carried out, under OC11 (as the case may be), **testing** to be carried out, or being carried out, at the request of a **Generator** in relation to a **PPA CDGU** under OC11.8, testing to be carried out at the request of a **User** in respect of **User's Equipment** other than a **PPA CDGU** under

OC11.13 and/or **Commissioning/Acceptance Testing** under the CC;

- (xv) **System Tests;**
- (xvi) the inability of any **CDGU** and/or **Controllable PPM** to meet its full reserve capability;
- (xvii) **Inter-jurisdictional Tie Line** limits;
- (xviii) other facts as may be reasonably considered by the **TSO** to be relevant to the **Indicative Operations Schedule;**
- (xix) the inflexible characteristics as declared by the **Generator or Synchronous Condenser Unit Operator** and abnormal risks;
- (xx) losses on the **Transmission System** and on the **Other Transmission System;**
- (xxi) requirements within any **Constrained Group;**
- (xxii) the requirements to manage gas flows;
- (xxiii) fuel and emission constraints of a **Plant** as well as any other technical related factors which may constrain the **Output** or **Demand Reduction** of a **Plant** as the case may be both immediately and in the longer term.
- (xxiv) any inter-unit dependencies notified to the **TSO** that restrict the number of **Generating Units** that can start up or shut down simultaneously.
- (xxv) factors used by the **TSO** (and the **Other TSO**) in order to comply with Statutory Instruments, Statutory Regulations and/or the **Licence** which may impact **Scheduling** and **Dispatch;**
- (xxvi) factors used by the **TSO** (and the **Other TSO**) to comply with the objectives in SDC1.2(g);

SDC1.4.78.4 Taking account of and applying the factors referred to in SDC1.4.8.3, **Indicative Operations Schedules** shall be compiled by the **TSO** in conjunction with the **Other TSO** to **Schedule** such **CDGUs, Controllable PPM, Synchronous Condenser Units, Pumped Storage Plant Demand, Demand Side Units, Aggregated Generating Units** and/or such **Interconnector** power transfers, and

equivalent units or power transfers of equivalent units in the Republic of the Ireland, which have been declared **Available** in an **Availability Notice** (and the equivalents on the **Other Transmission System**):

- (i) in accordance with the applicable **Merit Order**
- (ii) as will in aggregate (after taking into account electricity delivered other than from **CDGUs, Controllable PPMs, Aggregated Generating Units**, and/or **Interconnector** power transfers and variation in **Demand** from **Pumped Storage Plant Demand, Energy Storage Power Station Demand, Synchronous Condenser Units** and **Demand Side Units**) be sufficient to match at all times (to the extent possible having regard to the **Availability** or **Demand Side Unit MW Availability** of **CDGUs, Controllable PPMs, Synchronous Condenser Units, Pumped Storage Plant Demand, Energy Storage Power Station Demand, Demand Side Units, Aggregated Generating Units** and **Interconnector** power transfers) the forecast aggregated **Demand** (derived under OC1 of the **Grid Code** and the **Other Grid Code**) together with such margin of reserve as the **TSO** working in conjunction with the **Other TSO** shall consider to be appropriate; and
- (iii) as will in aggregate be sufficient to match minimum forecast **Demand** levels together with a sufficient **Minimum Demand Regulation**.

The taking account of and application of the factors in SDC1.4.8.3 will mean that, in general, strict adherence to **Merit Order** may not necessarily be feasible.

SDC1.4.78.5 The **TSO** will periodically rerun the **Scheduling** process and issue revised **Indicative Operating Schedules** to take account of any of the following factors (and the equivalent factors on the **Other Transmission System** which will be so dealt with separately by the **Other TSO**):

- (a) changes to **Physical Notifications**; and **Interconnector Schedule Quantities**;
- ~~(b) — changes to **Interconnector Schedule Quantities**;~~
- (b) changes to **Commercial Offer Data** [and bid-offer data from **External Transmission System Operators**];
- ~~(c)~~ changes to **Availability** or **Demand Side Unit MW Availability** and/or **Technical Parameters** of **CDGUs** and/or **Controllable PPM** and/or **Aggregated Generating Units** and/or **Interconnectors** and/or **Demand Side Units** and/or

**Synchronous Condenser Units** notified to the **TSO**;

- (de) changes to **Demand** forecasts on the Island of Ireland; 
- (ef) changes to **PPM** resource forecasts on the Island of Ireland;
- (fg) changes to **Transmission System** constraints, emerging from the necessarily iterative process of **Scheduling** and network security assessment;
- (gh) changes to **CDGU** and/or **Controllable PPM** and/or **Synchronous Condenser Unit** requirements following notification to the **TSO** of the changes in capability of a **Generator** or **Synchronous Condenser Unit Operator** to provide a **Special Action** as described in SDC2;
- (hi) changes to **CDGU** and/or **Controllable PPM** and/or **Synchronous Condenser Unit** requirements within **Constrained Groups**, following re-appraisal of **System Demand** forecasts on the Island of Ireland within that **Constrained Group**; 
- (ij) changes to any conditions which in the reasonable opinion of the **TSO**, would impose increased risk to the **Transmission System** and would therefore require an increase in the **Operating Margin**;
- (jk) known (or emerging) limitations and/or deficiencies of the **Scheduling** process.

SDC1.4.78.6 When:

- (a) adverse weather is anticipated;
- (b) there is a high risk to the whole or part of the **Transmission System** and/or the **Other Transmission System**;
- (c) **Demand Control** has been instructed by the **TSO**;
- (d) a **Total** or **Partial Shutdown** exists; or
- (e) the **Fuel Security Code** is invoked or is anticipated to be invoked;

these factors may mean that a **CDGU**, **Controllable PPM**, **Synchronous Condenser Units**, **Pumped Storage Plant Demand**, **Energy Storage Power Station Demand**, **Demand Side Unit**, **Aggregated Generating Unit** and/or **Interconnector** transfers is/are chosen other than in accordance with the profile described in **Physical Notifications** (the **Active Power** profile derived from **Interconnector Schedule Quantities** in respect of **Interconnectors**)

and amended in line with **Merit Order** to a greater degree than would be the case when merely taking into account the factors listed in SDC1.4.8.3 in order to seek to maintain the integrity of the **Transmission System**.

- SDC1.4.78.7 (a) The **Synchronising** and **De-Synchronising** times (and, in the case of **Pumped Storage Plant Demand** and **Energy Storage Power Station Demand**, the relevant effective time) shown in the **Indicative Operations Schedule** are indicative only and it should be borne in mind by **Users** that the **Dispatch Instructions** could reflect more or different **CDGU**, **Aggregated Generating Unit** and/or **Controllable PPM**, **Synchronous Condenser Unit**, **Pumped Storage Plant Demand**, **Energy Storage Power Station Demand** and/or **Aggregate Generating Unit** requirements than in the **Indicative Operations Schedule**. The **TSO** may issue **Dispatch Instructions** in respect of any **CDGU** and/or **Aggregated Generating Unit**, **Controllable PPM**, **Synchronous Condenser Unit**, **Pumped Storage Plant Demand**, **Energy Storage Power Station Demand** or **Aggregated Generating Unit** which has not declared an **Availability** or **Demand Side Unit MW Availability** of 0 MW in an **Availability Notice**. **Users** with **CDGUs** and/or **Aggregated Generating Units**, **Controllable PPM**, **Synchronous Condenser Unit**, **Pumped Storage Plant Demand**, **Energy Storage Power Station Demand** shall ensure that their units are able to be **Synchronised**, or in the case of **Pumped Storage Plant Demand** and **Energy Storage Power Station Demand**, used at the times **Scheduled**, but only if so **Dispatched** by the **TSO** by issue of a **Dispatch Instruction**. **Users** shall, as part of a revision to the **Technical Parameters**, indicate to the **TSO** the latest time at which a **Dispatch Instruction** is required to meet the scheduled **Synchronising** time or in the case of **Pumped Storage Plant Demand** and **Energy Storage Power Station Demand**, the **Scheduled** relevant effective time.
- (b) The provisions of SDC1.4.8.7(a) shall apply to **Demand Side Units** with the exception that reference to relevant effective time shall be read as a reference to **Demand Side Unit Notice Time**.

#### SDC1.4.78.8 Content of Indicative Operations Schedules

The information contained in the **Indicative Operations Schedule** will indicate, where appropriate, on an individual **CDGU**, **Controllable PPM**, **Synchronous Condenser Unit**, **Pumped Storage Plant Demand**, **Energy Storage Power Station Demand**, **Demand Side Unit**, **Aggregated Generating Units** and /or **Interconnector** basis, the period and **Loading** or **Active Power**

**Demand** for which it is **Scheduled** during the relevant **Trading Day**. In the case of a **CDGU** which is capable of firing on two different fuels, it will also indicate the fuel for which it is **Scheduled**. If no fuel is contained in the **Indicative Operations Schedule**, then the most recently specified fuel shall be treated as having been indicated.

#### SDC1.4.78.9 Issue of **Indicative Operations Schedule**

- (a) The initial **Indicative Operations Schedule** for a **Trading Day** will be published for access by **Users** (or where in relation to a **CDGU** or **Synchronous Condenser Unit** the **User** does not have access to where it would be published, shall, subject to agreement with the **TSO** (such agreement not to be unreasonably withheld or delayed), be sent by the **TSO** to that **User**) by 1600 hours on the day preceding the relevant **Trading Day**. However, if on any occasion the **TSO** is unable to meet these times, the **TSO** also reserves the right to extend the timescale for the issue of the initial **Indicative Operations Schedules** to the extent necessary. Following the issue of the initial **Indicative Operations Schedule** preceding the relevant **Trading Day**, the **TSO** will issue revised **Indicative Operations Schedules** to reflect updated information from the **Scheduling** process.
- (b) **Indicative Operations Schedules** issued by the **TSO** may comprise several schedules covering short term, medium term or long term timeframes where long term covers the period up to 48 hours immediately following real time.
- (c) The **TSO** may issue **Dispatch Instructions** to **Users** in respect of **CDGUs**, **Controllable PPMs**, **Synchronous Condenser Units**, **Pumped Storage Plant Demand** and/or **Energy Storage Power Station Demand** and/or **Demand Side Units** and/or **Aggregated Generating Units** and/or **Interconnector** transfers before the issue of the **Indicative Operations Schedule** for the **Trading Day** to which the **Dispatch** instruction relates if the **Synchronous Start Up Time** for the relevant **CDGUs** and/or **Controllable PPMs**, **Synchronous Condenser Unit**, **Pumped Storage Plant Demand** and/or **Energy Storage Power Station Demand** and/or **Demand Side Unit** and/or **Aggregated Generating Unit** requires the **Dispatch** instruction to be given at that time. When the length of the time required for **Notice to Synchronise** is within 30 minutes of causing the **CDGU** and/or **Controllable PPMs** and/or **Synchronous Condenser Unit** and/or **Pumped Storage Plant Demand** and/or **Energy Storage Power Station Demand** to be unable to meet the indicative **Synchronising** time in the **Indicative Operations Schedule** or a subsequent indicative **Synchronising** time and no

**Dispatch Instruction** has been received, the **Generator** shall inform the **TSO** without delay.

SDC1.4.8.10 Regulation

It is a requirement for running the **Transmission System** that all **Synchronised CDGUs** and/or **Controllable PPMs** shall at all times be capable of reducing **MW Output** sufficient to allow a sufficient **Regulating Margin** for adequate **Frequency Control**. The **TSO** will monitor the **MW Output** data of the **Indicative Operations Schedule** against forecast of **System Demand** on the Island of Ireland to see whether the level of regulation for any period is sufficient, and may take any shortfall into account in **Scheduling** and **Dispatch**.

SDC1.4.8.11 Data Requirements

SDC1 Appendix A Part 1 sets out the **Technical Parameters** for which values are to be supplied by a **User** in respect of each of its **CDGUs** and/or **Controllable PPMs** and/or **Synchronous Condenser Units** and/or **Pumped Storage Plant Demand** and/or **Energy Storage Power Station Demand** and/or **Demand Side Units** and/or **Aggregated Generating Units** by not later than **Gate Closure 1** for the relevant **Trading Day**.

SDC1 Appendix A Part 2 sets out the additional data items required in respect of an **Additional Grid Code Characteristics Notice**.